

Application No. 10/518,152
Attorney Docket No.: 401370-999001

Express Mail No.: ER 895642928 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Ing et al.

Confirmation No.: 5258

Application No.: 10/518,152

Group Art Unit: 3662

Filed: December 9, 2004

Examiner: To be assigned

For: METHOD FOR LOCATING AN
IMPACT ON A SURFACE AND
DEVICE THEREFOR

Attorney Docket No.: 401370-999001

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.56 and §1.97

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Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 and § 1.97 to inform the Patent Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of any claim of the application, Attorneys for Applicants hereby direct the Examiner's attention to the references A1 through C8 listed on the attached form entitled "List of References Cited by Applicant." A copy of references B1 through C8 is submitted herewith.

Identification of references listed on the List of References Cited is not to be construed as an admission of Applicants or Attorneys for Applicants that such references are available as "prior art" against the subject application.

Pursuant to 37 C.F.R. § 1.97(b)(3), since this Information Disclosure Statement is being submitted before the first Office Action on merits, no fee is believed to be due. If a fee

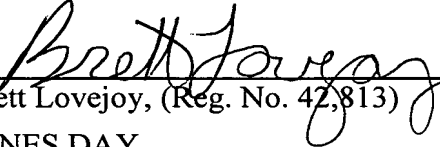
is deemed necessary, please charge all required fees to Jones/Day Account No. 50-3013
(401370-999001). A duplicate of this sheet is enclosed.

Applicants respectfully request that the Examiner review the foregoing references and
that the references be made of record in the file history of the application.

Date

May 24, 2005

Respectfully submitted,


Brett Lovejoy, (Reg. No. 42,813)

JONES DAY
222 East 41st Street
New York, NY 10017
415-875-5744

Enclosures

LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO. 401370-999001	APPLICATION NO 10/518,152
	APPLICANT Ing et al.	
	FILING DATE December 9, 2004	GROUP 3662

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	US 5,404,458	4/4/1995	Zetts			
	A2	US 5,412,189	5/2/1995	Cragun			
	A3	US 5,059,959	10/22/1991	Barry			
	A4	US 5,628,031	5/6/1997	Kikinis et al.			
	A5	US 5,691,959	11/25/1997	Kriewall et al.			
	A6	US 5,717,432	2/10/1998	Miwa et al.			
	A7	US 5,856,820	1/5/1999	Weigers et al.			
	A8	US 5,986,224	11/16/1999	Kent			
	A9	US 6,161,434	12/19/2000	Fink et al.			
	A10	US 6,167,165	12/26/2000	Gallagher et al.			
	A11	US 6,404,353 B1	6/11/2002	Coni et al.			
	A12	US 6,549,193 B1	4/15/2003	Huang et al.			
	A13	US 6,555,235 B1	4/29/2003	Aufderheide et al.			
	A14	US 6,738,051 B2	5/18/2004	Boyd et al.			
	A15	US 2001/0006006 A1	7/5/2001	Hill			
	A16	US 2003/0066692 A1	4/10/2003	Devige et al.			
	A17	US 2003/0164820 A1	9/4/2003	Kent			
	A18	US 2003/0217873 A1	11/27/2003	Paradiso et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	B1	WO 01/48684 A2	7/5/2001	PCT				
	B2	WO 03/005292 A1	1/16/2003	PCT				
	B3	EP 0474 232 A2	3/11/1992	Europe				
	B4	FR 2811107	1/4/2002	France			Abstract only	
	B5	FR 2757659	6/26/1998	France			Abstract only	
	B6	GB 2301217 A	11/27/1996	United Kingdom				

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLA SS	TRANSLATION
							YES NO
	B10	WO 03/067511 A	07/14/2003	PCT			

OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
C1	Fink, M., "Time-Reversed Acoustics," 1999, Scientific American, November 1999, pp. 91-97.
C2	Ing, R.K., et al., 2001, "Dynamic Focusing Using a Unique Transducer and Time Reversal Process," The 8 th International Congress on Sound and Vibration, 2-6 July 2001, Hong Kong, China, 8 pp.
C3	Ing, R.K., et al., 1998, "Time-Reversed Lamb Waves," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 45, pp. 1032-1043.
C4	Ing, R.K., et al., 2001, "Ultrasonic Imaging Using Spatio-Temporal Matched Field (STMF) Processing--Applications to Liquid and Solid Waveguides," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, Vol. 48, pp. 374-386.
C5	McLaughlin, E.A., and J. Arvelo, Co-Chairmen, May, 2004, "Engineering Acoustics: Computational Acoustics, Ultrasonics and Applications," Jour. Acoust. Soc. Am., Vol. 115, pp. 2587-2589, in particular, Abstract 5aEA9, "Time reversal interactive objects," by Ing et al.
C6	Quieffin, N., et al., March, 2004, "Real time beam steering using a one channel time reversal mirror coupled to a solid cavity," 2 pp.
C7	Quieffin, N., et al., May, 2004, "Real-time focusing using an ultrasonic one channel time-reversal mirror coupled to a solid cavity," Jour. Acoust. Soc. Am., Vol. 115, 6 pp.
C8	Wilson, P.S., and E. Viverios, Co-Chairmen, December 2002, "Physical Acoustics: General Linear Acoustics," Jour. Acoust. Soc. Am., Vol. 112, pp. 2413-2415, in particular, Abstract 5aPA3, "Real time focusing using an ultrasonic 'one channel time-reversal mirror' coupled to a solid structure," by Quieffin et al. and Abstract 5aPA4, "Harmonic generation of Lamb waves," by R. K. Ing.

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